

DEED (Democratic Erosion Event Dataset) Analysis

Overview

This repository contains R code for analyzing the Democracy Erosion Event Dataset (DEED) and generating figures and tables. The analysis examines democratic erosion events across multiple countries from 2000-2024, comparing them with V-Dem democracy indicators and validating against external data sources.

Project Structure

Main Script

- `NaturePaper_Analysis.R` - Primary analysis script containing all figure generation code

Data Files

- `DEEDv7_Final_20251216.csv` - Main DEED dataset
- `compiled_clean_keepduplicates.xlsx` - Student case study data
- `V-Dem-CY-Full+Others-v15.csv` - V-Dem dataset
- `killed.csv` - CPJ data on journalists killed
- `cpj_journalists_imprisoned.csv` - CPJ data on journalists imprisoned

Output Files

The script generates the following figures:

- `DEED_EventCounts_final.png` - Figure 1: Top 5 event categories by type
- `mediaplot_final.png` - Figure 2: Media bias/repression vs V-Dem censorship
- `typecount_byregime_new.png` - Figure 3: Event counts by regime type
- `total_counts_new2025.png` - Figure A1: Annual event counts
- `time_series_nov2025.png` - Figure A2: Regional time series
- `comparisonplot_scfh.png` - Figure A3: Student Case vs Freedom House comparison
- `top5_comparison_scfh.png` - Figure A4: Top 5 categories comparison

Required R Packages

```
```\nlibrary(tidyverse)\nlibrary(ggthemes)\nlibrary(dplyr)\nlibrary(ggplot2)\nlibrary(tidytext)\nlibrary(writexl)\nlibrary(readxl)\nlibrary(patchwork)\n```\n
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### ## Dataset Information

#### ### DEED Event Types

The dataset categorizes events into four types:

1. **Precursor** - Early warning signs of democratic erosion
2. **Symptom** - Active manifestations of erosion
3. **Resistance** - Civil society and institutional pushback
4. **Destabilizing Event** - Major democratic breakdowns

#### ### Key Variables

- `Country` - Country name  
- `Year\_1` - Event year  
- `Type` - Event type (Precursor/Symptom/Resistance/Destabilizing Event)  
- `Category` - Specific event category (Media Repression, etc.)  
- `FH\_year` - Freedom House year (for distinguishing FH vs Student Case data)

#### ### Coverage

- **Time Period**: 2000-2024  
- **Number of Countries**: Run `num\_countries` to see current count  
- **Regime Types**: Closed Autocracy, Electoral Autocracy, Electoral Democracy, Liberal Democracy

### ## Analysis Sections

#### ### 1. Descriptive Statistics

- Total event counts by type
- Country coverage
- Event distribution across years

### ### 2. V-Dem Integration

Merges DEED events with V-Dem indicators:

- `v2x\_libdem` - Liberal democracy index
- `v2x\_polyarchy` - Electoral democracy index
- `v2x\_regime` - Regime classification
- `v2mecenefm\_ord` - Government censorship effort
- `e\_regionpol\_6C` - Geographic region

### ### 3. CPJ Validation

Compares DEED media repression events with Committee to Protect Journalists (CPJ) data:

- 60% of country-years with journalists killed/imprisoned have corresponding DEED events
- 36% of country-years with no CPJ incidents still have DEED media events

### ### 4. Media Censorship Analysis

Examines relationship between:

- DEED media bias/repression events
- V-Dem government censorship effort measures

### ### 5. Regime Type Comparisons

Analyzes event distribution across regime types:

- Filters out destabilizing events from liberal/electoral democracies
- Compares precursor/symptom/resistance patterns

### ### 6. Regional and Temporal Trends

- Annual event counts (2000-2024)
- Regional time series for all V-Dem regions
- Year-over-year patterns

### ### 7. Student Case vs Freedom House Comparison

Separates and compares:

- Student case study events (FH\_year is NA)
- Freedom House-derived events (FH\_year is not NA)